TABLE OF CONTENTS

C. W. Stone. *Problems in the Scientific Study of the Teaching of Arithmetic* 1-16

W. H. Winch. *Mental Adaptation during the School Day, as Measured by Arithmetical Reasoning* 17-28, 71-84

Robert MacDougall. *The Child's Speech. IV. Word and Meaning* 29-38

V. The Mastery of the Tongue 85-96

C. Truman Gray. *The Relation of Breathing to Oral Reading* 39-41

E. A. Doll. *Three Phases of the Fifteenth International Congress on Hygiene and Demography* 41-44

E. A. Doll. *Mental Tests at the Mental Hygiene Conference* 44-45

W. H. Pyle. *Standards of Mental Efficiency* 61-70

J. E. Evans. *A Reaction Machine* 97-99

Knight Dunlap. *New Uses for the Ewald Chronoscope* 99-101

Louis W. Rapeer. *The Problem of Formal Grammar in Elementary Education* 125-137

Lewis M. Terman and Adeline Hocking. *The Sleep of School Children, its Distribution According to Age, and its Relation to Physical and Mental Efficiency. Part I. The Distribution of Sleep According to Age* 138-147

Part II. The Relation of Sleep to Intelligence, to School Success, and to Nervous Traits 199-208

Part III. The Conditions of Children's Sleep 269-282

W. H. Pyle. *Economical Learning* 148-158

F. M. Phillips. *Value of Daily Drill in Arithmetic* 159-163

Bird T. Baldwin. *Educational Psychology at the Cleveland Meeting of the American Psychological Association* 164-170

C. H. Williams. *Education in the Middle West* 171-175

George V. N. Dearborn. *What a Student of Elementary Psychology Should be Taught Concerning the Functions of the Nervous System* 175

Mary E. Lakenan. *The Whole and Part Methods of Memorizing Poetry and Prose* 189-198

I. Shaer. *Special Classes for Bright Children in an English Elementary School* 209-222

Marguerite Calfee. *College Freshmen and Four General Intelligence Tests* 223-231

TABLE OF CONTENTS

C. W. Stone. *Problems in the Scientific Study of the Teaching of Arithmetic* 1-16

W. H. Winch. *Mental Adaptation during the School Day, as Measured by Arithmetical Reasoning* 17-28, 71-84

Robert MacDougall. *The Child's Speech. IV. Word and Meaning* 29-38

V. The Mastery of the Tongue 85-96

C. Truman Gray. *The Relation of Breathing to Oral Reading* 39-41

E. A. Doll. *Three Phases of the Fifteenth International Congress on Hygiene and Demography* 41-44

E. A. Doll. *Mental Tests at the Mental Hygiene Conference* 44-45

W. H. Pyle. *Standards of Mental Efficiency* 61-70

J. E. Evans. *A Reaction Machine* 97-99

Knight Dunlap. *New Uses for the Ewald Chronoscope* 99-101

Louis W. Rapeer. *The Problem of Formal Grammar in Elementary Education* 125-137

Lewis M. Terman and Adeline Hocking. *The Sleep of School Children, its Distribution According to Age, and its Relation to Physical and Mental Efficiency. Part I. The Distribution of Sleep According to Age* 138-147

Part II. The Relation of Sleep to Intelligence, to School Success, and to Nervous Traits 199-208

Part III. The Conditions of Children's Sleep 269-282

W. H. Pyle. *Economical Learning* 148-158

F. M. Phillips. *Value of Daily Drill in Arithmetic* 159-163

Bird T. Baldwin. *Educational Psychology at the Cleveland Meeting of the American Psychological Association* 164-170

C. H. Williams. *Education in the Middle West* 171-175

George V. N. Dearborn. *What a Student of Elementary Psychology Should be Taught Concerning the Functions of the Nervous System* 175

Mary E. Lakenan. *The Whole and Part Methods of Memorizing Poetry and Prose* 189-198

I. Shaer. *Special Classes for Bright Children in an English Elementary School* 209-222

Marguerite Calfee. *College Freshmen and Four General Intelligence Tests* 223-231

LEONARD P. AYRES. *Psychological Tests in Vocational Guidance*.....232-237

W. A. COOK. *The Problem of Sex Education*.....253-260

F. KUHLMANN. *The Results of Grading Thirteen Hundred Feeble-Minded Children with the Binet-Simon Tests*....261-268

C. S. YOAKUM AND MARGUERITE CALFEE. *An Analysis of the Mirror Drawing Experiment*.....283-292

C. TRUMAN GRAY. *A New Form of Substitution Test*.....293-297

CLAYTON C. KOHL. *An Experiment with Undifferentiated Instruction*.....297-298

PERCY HUGHES. *College Marking Systems*.....298-299

WALTER F. DEARBORN. *Intervals in Economical Learning: A Correction*.....299-300

BIRD T. BALDWIN. *The Learning of Delinquent Adolescent Girls, as Shown by a Substitution Test*.....317-332

RUDOLF PINTNER. *Oral and Silent Reading of Fourth Grade Pupils*.....333-337

MARY L. DOUGHERTY. *Report of the Binet-Simon Tests Given to Four Hundred and Eighty-three Children in the Public Schools of Kansas City, Kansas*.....338-352

GUY MONTROSE WHIPPLE. *What Constitutes Experimental Proof? Critique of an Open-Window Experiment*.....353-356

B. DUMVILLE AND E. O. LEWIS. *Silent and Concerted Learning*.....356-361

WM. H. BURNHAM. *The Conference on Mental Hygiene at Boston*.....362-363

W. C. RUEDIGER. *Southern Society for Philosophy and Psychology*.....364-367

CLAYTON C. KOHL. *The Institute for Experimental Pedagogy and Psychology of the Leipzig Lehrerverein*.....367-369

W. H. WINCH. *When Should a Child Begin School? A Reply to Professor Strayer*.....370-371

FELIX SACHS. *A Preliminary Study of the Relative Efficiency of Inductive and Deductive Teaching of Logical Reasoning*.....381-392

EDWARD K. STRONG, JR. *Psychological Methods as Applied to Advertising*.....393-404

H. L. HOLLINGSWORTH. *Correlation of Abilities as Affected by Practice*.....405-414

DANIEL STARCH. *Correlations Among Abilities in School Studies*.....415-418

DANIEL STARCH. *The Measurement of Handwriting*.....445-464

265018

H. H. Schroeder. *A Real Problem for Educational Psychology*.....465-470
H. M. Jennings and A. L. Hallock. *Binet-Simon Tests at the George Junior Republic*.....471-475
Guy Montrose Whipple. *The Fourth International Congress on School Hygiene*.....476-478
Colin A. Scott. *General Intelligence or "School Brightness"*.....509-524
W. H. Winch. *Experimental Researches on Learning to Spell*.....525-537, 579-592
D. F. Carpenter. *Mental Age Tests*.....538-544
E. B. Huey. *The Education of Defectives and the Training of Teachers for Special Classes*.....545-550
E. L. Thorndike. *Educational Measurements Fifty Years Ago*.....551-552
Emma Kohnky. *Preliminary Study of the Effect of Dental Treatment upon the Physical and Mental Efficiency of School Children*.....571-578
Christian A. Ruckmich. *Is Myopia Inherited or Acquired?*..593-606
E. A. Doll. *Inexpert Binet Examiners and their Limitations*.....607-609
Abstracts and Reviews.....46, 102, 238, 419, 479, 610
Editorials.....51, 110, 176, 243, 301, 372, 427, 487, 553, 612
Notes and News....54, 112, 178, 245, 303, 373, 430, 491, 556, 615
Current Periodicals.....56, 117, 183, 305, 432, 494, 619
Publications Received.....58, 120, 185, 249, 307, 374, 436, 498, 558, 622

INDEX TO NAMES

Authors or original articles, communications or discussions have names printed in CAPITALS, and page numbers in **bold face** type. Authors reviewed, contributors of reviews, and authors mentioned have page numbers in Roman.

Anderson, L. F., 481.
Andress, J. Mace, 103.
AYRES, LEONARD P., **232.**
Bagley, W. C., 51, 102, 422, 427.
BALDWIN, BIRD T., **164, 317,** 364.
Bell, J. C., 104, 108, 110, 177, 243, 372, 421, 425, 479, 483, 488, 554.
Brill, A. A., 238.
Burnham, Ernest, 610.
BURNHAM, WM. H., **356.**
CALFEE, MARGUERITE, **223, 283.**
CARPENTER, D. F., **538.**
Cellerier, Lucien, 104.
Coffman, Lotus D., 610.
COOK, W. A., **253.**
Courtis, Stuart A., 421, 488.
DEARBORN, GEORGE V. N., **175,** 238.
DEARBORN, WALTER F., **299.**
De Garmo, Charles, 611.
DOLL, E. A., **41, 44, 607.**
DOUGHERTY, MARY L., **338.**
DUMVILLE, B., **356.**
EVANS, J. E., **97.**
Ferrero, Gina Lombroso, 46.
Geissler, L. A., 365.
GRAY, C. TRUMAN, **39, 293.**
Gross, Hans, 46.
HALLOCK, A. L., **471.**
Hayward, F. R., 422.
Heck, W. H., 241.
HOCKING, ADELINE, **138, 199, 269.**
HOLLINGSWORTH, H. L., **405.**
Hoyt, Franklin S., 125.
HUEY, E. B., 479, **545.**
HUGHES, PERCY, **298.**
Jacoby, George W., 104.
JENNINGS, H. M., **471.**
Jessup, Walter Albert, 105.
JOHNSTON, CHARLES HUGHES, **101.**
KOHL, CLAYTON C., **297, 367.**
KOHNKY, EMMA, **571.**
KUHLMANN, F., **261.**
LAKENAN, MARY E., **189.**
Leavitt, Frank Mitchell, 108.
LEWIS, E. O., **356.**
Lindsey, Ben B., 51.
MACDOUGALL, ROBERT, **29, 85.**
Mercier, Charles, 46.
Miller, W. S., 241.
Mitchell, C. Ainsworth, 46.
Moll, Albert, 102.
Morse, Josiah, 366.
Noyes, Anna G., 483.
Ostwald, Wilhelm, 49.
Parker, Samuel Chester, 481.
Peper, W., 103.
PHILLIPS, F. M., **159.**
PINTNER, RUDOLF, **333.**
Pope, Elfrieda Hochbaum, 49.

Putnam, Helen C., 485.
PYLE, W. H., **61, 148.**
de Quirós, C. Bernaldo, 46.
RAPEER, LOUIS W., **125.**
RUCKMICH, CHRISTIAN A., **593.**
RUEDIGER, W. C., **364.**
Rugg, Harold O., 419.
SACHS, FELIX, **381.**
Salielles, Raymond, 46.
Sargent, Walter, 425.
SCHROEDER, H. H., **465.**
SCOTT, COLIN A., **509.**
Scripture, E. W., 424.
Seashore, C. E., 244, 302, 424, 611, 613.
SHAER, I., **209.**
STARCH, DANIEL, **415, 445.**
STONE, C. W., **1.**
STRONG, EDWARD K., JR., **393.**
TERMAN, LEWIS M., 138, 199, 269.
THORNDIKE, E. L., **551.**
Vertes, J. O., 419.
WHIPPLE, GUY MONTROSE, 46, 104, 176, 301, **355, 476,** 485, 487, 553, 612.
WILLIAMS, C. H., **171.**
WINCH, W. H., **17, 71, 370, 525, 579.**
Wines, Frederick Howard, 46.
YOAKUM, C. S., **283.**

INDEX TO SUBJECTS

Adaptation, Mental, 17, 71.
Adolescence, Psychology of, 103.
Advertising, Psychology of, 393.
Aesthetic Education, 611.
Age of Entrance to School, 370.
American Psychological Association, Cleveland Meeting, 164.
Applied Psychology, 553.
Arithmetic, Teaching of, 159.
Arithmetical Reasoning, 17, 71.
Backward and Feeble-Minded Children, 479.
Binet-Simon Tests, 261, 301, 338, 366, 471, 607.
Bright Children, 209.
Case Method in Educational Psychology, 487.
Child Hygiene, 483.
Children's Sleep, 138, 199, 268.
Child's Speech, 29, 85.
Cleveland Meeting, American Psychological Association, 164.
Conference, Mental Hygiene, 44.
Conference of Education in Middle West, 171.
Congress on Hygiene and Demography, 41.
Congress on School Hygiene, 476.
Correlation of Abilities, 405, 415.
Courtis Tests in Arithmetic, 421, 488.
Courtis Tests in English, 554.
Criminology, 46.
Deductive Teaching, 381.
Delinquents, Learning of, 317.
Dental Treatment, 613.
Drawing, 425.
Economical Learning, 148, 299.
Education, Industrial, 108.
Educational Administration, Psychology of, 422.
Educational Measurements, 551.
Educational Research, 110.
Educational Psychology, 469.
Efficiency, Mental, 61, 244, 302.
Elementary Course in Psychology, 613.
Ewald Chronoscope, 99.
Experimental Pedagogy, 1, 17, 71, 159, 367, 445, 525, 579.
Feeble-Minded Children, 479.
General Intelligence, 509.
Grammar, 125.
Handwriting, 445.
History of Education, 481.
Inductive Teaching, 381.
Industrial Education, 108.
Inheritance of Ability, 427.
Latin, 612.
Learning, 148, 189, 299, 317, 356.
Marking Systems, 298.
Meaning, 29.
Memory of Children, 419.
Mental Adaptation, 17, 71.
Mental Defectives, 545.
Mental Diagnosis, 553.
Mental Efficiency, 61, 244, 302.
Mental Fatigue, 240.
Mental Hygiene Conference, 44, 362.
Mental Nodes, 177.
Mental Tests, 44, 61, 223, 232, 283, 293, 365, 509, 539.
Middle West, Education in, 171.
Mirror Drawing Experiment, 283.
Monism, 49.
Moral Instruction, 101.
Myopia, 593.
Natural Method in Languages, 243.
Nervous System, 175.
Open-Window Experiment, 352.

Pedagogy, Experimental, 1, 17, 71, 159, 367, 445, 525, 579.
Pedagogy, Science of, 104.
Physiological Age, 364.
Playgrounds, 51.
Psychanalysis, 238.
Psychology of Adolescence, 103.
Psychotherapy, 104.
Reaction Apparatus, 97, 99.
Reading, 39, 333.
Reasoning, 381.
Rural Schools, 610.
School Brightness, 509.
School Hygiene, 476, 485.
School Psychologists, 176.
Sex Hygiene, 102, 253.
Sleep, Children's, 138, 199, 268.
Southern Society of Philosophy and Psychology, 364.
Special Classes, 209, 297, 545.
Special Subjects, 105.
Speech, 29, 85.
Spelling, 525, 579.
Stability of Teachers, 372.
Stuttering, 424.
Substitution Test, 293, 317.
Suggestion, 104.
Tests of Intelligence, 223, 232, 283, 293, 365, 509, 539.
Vocational Guidance, 232.